

WHAT IS CLAIMED IS:

1. A backlight unit comprising:

a light source emitting the light; and

optical fiber surrounding the circumference of the light source so as to concentrate the light emitted from the light source.

2. The backlight unit of claim 1, wherein the light source includes one of a plurality of red, green and blue LEDs, a plurality of white LEDs, and fluorescent lamps.

3. The backlight unit of claim 1, wherein the optical fiber is one of glass optical fiber and a plastic optical fiber.

4. The backlight unit of claim 3, wherein the glass optical fiber is one of a silicic optical fiber, a fluoride optical fiber, and a rare-earth optical fiber.

5. A backlight unit comprising:

a light-guiding plate at the rear of an LCD panel;

a light source at one side of the light-guiding plate to emit light;

optical fiber surrounding the circumference of the light source to concentrate the light emitted from the light source and to emit the concentrated light to an incident surface of the light-guiding plate; and

a reflecting plate below the light-guiding plate to reflect the light leaking in a direction away from the LCD panel to the light-guiding plate.

6. The backlight unit of claim 5, wherein the optical fiber is one of a glass optical fiber and a plastic optical fiber.

7. The backlight unit of claim 6, wherein the glass optical fiber is one of a silicic optical fiber, a fluoride optical fiber, and a rare-earth optical fiber.

8. The backlight unit of claim 5, wherein the light source includes one of a plurality of red, green and blue LEDs, a plurality of white LEDs, and fluorescent lamps.

9. A backlight unit comprising:
a light-guiding plate at the rear of an LCD panel;
first and second light sources at both sides of the light-guiding plate to emit light;
optical fiber surrounding the circumference of the first and second light sources, to concentrate and to emit the light emitted from the first and second light sources; and
a reflecting plate below the light-guiding plate, so as to reflect the light leaking in a direction away from the LCD panel to the light-guiding plate.

10. The backlight unit of claim 9, wherein the optical fiber is one of a glass optical fiber and a plastic optical fiber.

11. The backlight unit of claim 10, wherein the glass optical fiber is any of a silicic optical fiber, a fluoride optical fiber, and a rare-earth optical fiber.

12. The backlight unit of claim 9, wherein the light source includes one of a plurality of red, green and blue LEDs, a plurality of white LEDs, and fluorescent lamps.

13. A backlight unit comprising:

a main light-guiding plate at the rear of an LCD panel;

a sub light-guiding plate at one side of the main light-guiding plate;

a light source at one side of the sub light-guiding plate to emit light;

first optical fiber surrounding the circumference of the light source, so as to concentrate and to emit the light emitted from the light source to an incident surface of the sub light-guiding plate;

first and second reflecting plates below the main light-guiding plate, reflecting the light leaking from the main and sub light-guiding plates; and

a second optical fiber surrounding an emitting surface of the sub light-guiding plate and an incident surface of the main light-guiding plate, so as to concentrate and emit the light emitted from the sub light-guiding plate to the incident surface of the main light-guiding plate.

14. The backlight unit of claim 13, wherein the first and second optical fibers are one of a glass optical fiber and a plastic optical fiber.

15. The backlight unit of claim 14, wherein the glass optical fiber is any one of a silicic optical fiber, a fluoride optical fiber, and a rare-earth optical fiber.